



National
Library
of Medicine

PubMed	Nucleotide	Protein	Genome	Structure	PMC	Taxonomy	OMIM	Books			
Search	PubMed	<input checked="" type="checkbox"/> for						Go	Clear		
		<input checked="" type="checkbox"/> Limits		Preview/Index	History	Clipboard	Details				
		Display	Abstract	<input checked="" type="checkbox"/>	Show:	20	Sort	<input checked="" type="checkbox"/>	Send to	Text	<input checked="" type="checkbox"/>

Entrez
PubMed

PubMed
Services

Related
Resources

1: FEBS Lett 1990 Nov 12;274(1-2):23-6

Related Articles, Links

Firefly luciferase, synthesized to very high levels in caterpillars infected with a recombinant baculovirus, can also be used as an efficient reporter enzyme in vivo.

Jha PK, Nakhai B, Sridhar P, Talwar GP, Hasnain SE.

National Institute of Immunology, Shahid Jeet Singh Marg, New Delhi, India.

Trichoplusia ni and Spodoptera littoralis larvae were infected with a recombinant AcNPV, having the viral polyhedrin gene replaced with the cDNA encoding firefly luciferase. Both S. littoralis and T. ni synthesized very high levels of luciferase representing greater than or equal to 25% and greater than or equal to 15%, respectively of the total Coomassie blue stainable protein. Luciferase was apparently not secreted into the hemolymph but was contained within the body tissue. Expression in S. littoralis larvae suggests that luciferase can be an excellent reporter enzyme to study virus infection, dissemination and expression in different tissues, host range determination, insect physiology and also to monitor the release of recombinant virus in the environment when used as a biocide.

PMID: 2253776 [PubMed - indexed for MEDLINE]

Display	Abstract	<input checked="" type="checkbox"/>	Show:	20	<input checked="" type="checkbox"/>	Sort	<input checked="" type="checkbox"/>	Send to	Text	<input checked="" type="checkbox"/>
---------	----------	-------------------------------------	-------	----	-------------------------------------	------	-------------------------------------	---------	------	-------------------------------------

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)
[Freedom of Information Act](#) | [Disclaimer](#)